

L10: Entry 2 of 4

File: DWPI

Nov 26, 1993

DERWENT-ACC-NO: 1994-002490

DERWENT-WEEK: 199401

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TITLE: Immunoassay using lipid antigen for examining syphilis - by adding a sample to a reaction vessel contg. a solid phase carrier on which lipid antigen is fixed, carrying out antigen-antibody reaction, etc.

PATENT-ASSIGNEE: OLYMPUS OPTICAL CO LTD (OLYU)

PRIORITY-DATA: 1992JP-0117674 (May 11, 1992)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 05312808 A	November 26, 1993		006	G01N033/543

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 05312808A	May 11, 1992	1992JP-0117674	

INT-CL (IPC): G01N 33/543; G01N 33/553; G01N 33/571

ABSTRACTED-PUB-NO: JP 05312808A

BASIC-ABSTRACT:

Immunoassay comprises (i) adding a sample to a reaction vessel contg. a solid phase carrier on which lipid antigen is fixed and carrying out the antigen-antibody reaction of the lipid antigen and antibody in the sample, (ii) adding antibody-sensitised magnetic particles to the reaction vessel and carrying out the antigen-antibody reaction of the antibody bound with the lipid antigen and the antibody-sensitised magnetic particles and (iii) determining a pattern formed on the carrier.

The lipid antigen pref. contains cardiolipin, lecithin and cholesterol. The ratio of the cardiolipin to the lecithin is 1-50 wt.%. The reaction vessel is a microplate well to U-form, flat or V-form bottom. Antibody used for sensitising the antibody-sensitised magnetic particles is anti-human IgG or anti-human IgM.

USE/ADVANTAGE - Used esp. for examining syphilis. The immunoassay can be completed in about 10 mins. in contrast with hours required for some previous enzyme immunoassays. Non-specific reaction can be depressed and stable analytical results of high S/N ratio can be obtd.. The judgment of positivity or negativity of syphilis can be easily and objectively carried out by eyes.

In an example, blood serum samples negative or positive to syphilis were examined by the immunoassay using anti-human IgG-sensitised particles contg. magnetic matter. When the blood serum sample was positive for syphilis, a distinct positive image of the particles extended over the whole surface of microplate well was obtd.. When the sample was negative, a bottom-form negative image aggregated at the bottom face of the well was obtd..

ABSTRACTED-PUB-NO: JP 05312808A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg. 0/0

DERWENT-CLASS: B04 D16

CPI-CODES: B01-D02; B04-B01B; B04-B04C2; B04-B04D4; B04-G01; B11-C07A6; B12-K04A; D05-H09;

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Basic Abstract Text (2):

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Basic Abstract Text (3):

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Basic Abstract Text (4):

In an example, blood serum samples negative or positive to syphilis were examined by the immunoassay using anti-human IgG-sensitised particles contg. magnetic matter. When the blood serum sample was positive for syphilis, a distinct positive image of the particles extended over the whole surface of microplate well was obtd.. When the sample was negative, a bottom-form negative image aggregated at the bottom face of the well was obtd..

Standard Title Terms (1):

IMMUNOASSAY LIPID ANTIGEN SYPHILIS ADD SAMPLE REACT VESSEL CONTAIN SOLID PHASE CARRY LIPID ANTIGEN FIX CARRY ANTIGEN ANTIBODY REACT